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April 14, 2010

Volume 58, Issue 7

Pages 3869-4536

In this issue:

- [Berry Health Symposium 2009 Symposium](#)
- [Articles](#)
- [Analytical Methods](#)
- [Bioactive Constituents](#)
- [Biofuels and Bioproducts Chemistry](#)
- [Chemical Aspects of Biotechnology/Molecular Biology](#)
- [Chemical Aspects of Food Safety](#)
- [Chemical Changes Induced by Processing/Storage](#)
- [Chemical Composition of Foods/Feeds](#)
- [Crop and Animal Protection Chemistry](#)
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Selected:

Berry Health Symposium 2009

Symposium

### Recent Trends and Advances in Berry Health Benefits Research





Navindra P. Seeram

pp 3869-3870

Publication Date (Web): December 18, 2009 (Symposium Introduction)

DOI: 10.1021/jf902806j

[Abstract](#)

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Articles

### Raspberries and Human Health: A Review





A. Venketeshwer Rao and Dawn M. Snyder

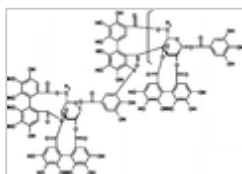
pp 3871-3883

Publication Date (Web): February 24, 2010 (Article)

DOI: 10.1021/jf903484g

[Abstract](#)

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**Alaskan Wild Berry Resources and Human Health under the Cloud of Climate Change**[Abstract](#)

Joshua Kellogg, Jinzhi Wang, Courtney Flint, David Ribnicky, Peter Kuhn, Elvira González De Mejia, Ilya Raskin and Mary Ann Lila

pp 3884-3900

Publication Date (Web): December 21, 2009 ([Article](#))

DOI: 10.1021/jf902693r

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 Subscriber Access**Identification of Flavonoid and Phenolic Antioxidants in Black Currants, Blueberries, Raspberries, Red Currants, and Cranberries**[Abstract](#) | [Supporting Info](#)

Gina Borges, Alexandra Degeneve, William Mullen and Alan Crozier

pp 3901-3909

Publication Date (Web): December 15, 2009 ([Article](#))

DOI: 10.1021/jf902263n

-  Full Text HTML
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 Subscriber Access**Use of Accurate Mass Full Scan Mass Spectrometry for the Analysis of Anthocyanins in Berries and Berry-Fed Tissues**[Abstract](#)

William Mullen, Stephen Larcombe, Kathryn Arnold, Helen Welchman and Alan Crozier

pp 3910-3915

Publication Date (Web): December 16, 2009 ([Article](#))

DOI: 10.1021/jf902267v

-  Full Text HTML
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-  PDF w/ Links[732K]

 Subscriber Access**HPLC-MS Analysis of Proanthocyanidin Oligomers and Other Phenolics in 15 Strawberry Cultivars**[Abstract](#)

Begoña Buendía, María I. Gil, Juan A. Tudela, Anne L. Gady, Juan J. Medina, Carmen Soria, Jose M. López and Francisco A. Tomás-Barberán

-  Full Text HTML
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pp 3916-3926

Publication Date (Web): December 28, 2009 (Article)

DOI: 10.1021/jf9030597

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### Bioavailability of Various Polyphenols from a Diet Containing Moderate Amounts of Berries

[Abstract](#)

Raika Koli, Iris Erlund, Antti Jula, Jukka Marniemi, Pirjo Mattila and Georg Alfthan

pp 3927-3932

Publication Date (Web): January 14, 2010 (Article)

DOI: 10.1021/jf9024823

•  Full Text HTML

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### Bioavailability of Anthocyanins and Ellagitannins Following Consumption of Raspberries by Healthy Humans and Subjects with an Ileostomy

[Abstract](#)

Rocío González-Barrio, Gina Borges, William Mullen and Alan Crozier

pp 3933-3939

Publication Date (Web): March 10, 2010 (Article)

DOI: 10.1021/jf100315d

•  Full Text HTML

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### Urinary Excretion of Phenolic Acids in Rats Fed Cranberry

[Abstract](#)

Ronald L. Prior, Theodore R. Rogers, Ramesh C. Khanal, Samuel E. Wilkes, Xianli Wu and Luke R. Howard

pp 3940-3949

Publication Date (Web): January 6, 2010 (Article)

DOI: 10.1021/jf9028392

•  Full Text HTML

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### Xenobiotic Metabolism and Berry Flavonoid Transport across the Blood-Brain Barrier

[Abstract](#)

Paul E. Milbury and Wilhelmina Kalt

pp 3950-3956

Publication Date (Web): February 3, 2010 (Article)

•  Full Text HTML

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### **Delphinidin Induces Necrosis in Hepatocellular Carcinoma Cells in the Presence of 3-Methyladenine, an Autophagy Inhibitor**

Rentian Feng, Shiow Y. Wang, Ying-Hong Shi, Jia Fan and Xiao-Ming Yin

pp 3957-3964

Publication Date (Web): December 21, 2009 ([Article](#))

DOI: 10.1021/jf9025458

[Abstract](#)

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### **Effects of Fruit Ellagitannin Extracts, Ellagic Acid, and Their Colonic Metabolite, Urolithin A, on Wnt Signaling**

Meenakshi Sharma, Liya Li, Jeremy Celver, Caroline Killian, Abraham Kovoov and Navindra P. Seeram

pp 3965-3969

Publication Date (Web): December 16, 2009 ([Article](#))

DOI: 10.1021/jf902857v

[Abstract](#)

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### **Purified Blueberry Anthocyanins and Blueberry Juice Alter Development of Obesity in Mice Fed an Obesogenic High-Fat Diet**

Ronald L. Prior, Samuel E. Wilkes, Theodore R. Rogers, Ramesh C. Khanal, Xianli Wu and Luke R. Howard

pp 3970-3976

Publication Date (Web): February 11, 2010 ([Article](#))

DOI: 10.1021/jf902852d

[Abstract](#)

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### **Dietary Black Raspberry Anthocyanins Do Not Alter Development of Obesity in Mice Fed an Obesogenic High-Fat Diet**

Ronald L. Prior, Sam Wilkes, Theo Rogers, Ramesh C. Khanal, Xianli Wu, Tiffany J. Hager, Aaron Hager and Luke Howard

pp 3977-3983

[Abstract](#)

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•  Hi-Res PDF[1161K]

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Publication Date (Web): March 4, 2010 ([Article](#))

DOI: 10.1021/jf9030772

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### Hepatic Gene Expression Related to Lower Plasma Cholesterol in Hamsters Fed High-Fat Diets Supplemented with Blueberry Peels and Peel Extract

Hyunsook Kim, Glenn E. Bartley, Agnes M. Rimando and Wallace Yokoyama

pp 3984-3991

Publication Date (Web): February 9, 2010 ([Article](#))

DOI: 10.1021/jf903230s

[Abstract](#)

-  Full Text HTML
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### Berry Ellagitannins May Not Be Sufficient for Prevention of Tumors in the Rodent Esophagus

Li-Shu Wang, Stephen Hecht, Steven Carmella, Claire Seguin, Claudio Rocha, Nanxiong Yu, Kristen Stoner, Steven Chiu and Gary Stoner

pp 3992-3995

Publication Date (Web): February 2, 2010 ([Article](#))

DOI: 10.1021/jf9030635

[Abstract](#)

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### Blueberry Supplementation Improves Memory in Older Adults




Robert Krikorian, Marcelle D. Shidler, Tiffany A. Nash, Wilhelmina Kalt, Melinda R. Vinqvist-Tymchuk, Barbara Shukitt-Hale and James A. Joseph

pp 3996-4000

Publication Date (Web): January 4, 2010 ([Article](#))

DOI: 10.1021/jf9029332

[Abstract](#)

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### Recent Research on Polyphenolics in Vision and Eye Health

Wilhelmina Kalt, Anne Hanneken, Paul Milbury and Francois Tremblay

pp 4001-4007

Publication Date (Web): January 26, 2010 ([Article](#))

DOI: 10.1021/jf903038r

[Abstract](#)

-  Full Text HTML
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### Regulation of Vascular Endothelial Function by Procyanidin-Rich Foods and Beverages

Paul W. Caton, Mark R. Pothecary, Delphine M. Lees, Noorafza Q. Khan, Elizabeth G. Wood, Toshihiko Shoji, Tomomasa Kanda, Gurvinder Rull and Roger Corder

pp 4008-4013

Publication Date (Web): January 28, 2010 (Article)

DOI: 10.1021/jf9031876

[Abstract](#)

-  Full Text HTML
-  Hi-Res PDF[3482K]
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### Subcritical Solvent Extraction of Procyanidins from Dried Red Grape Pomace

Jeana K. Monrad, Luke R. Howard, Jerry W. King, Keerthi Srinivas and Andy Mauromoustakos

pp 4014-4021

Publication Date (Web): December 18, 2009 (Article)

DOI: 10.1021/jf9028283

[Abstract](#)

-  Full Text HTML
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### Jam Processing and Storage Effects on Blueberry Polyphenolics and Antioxidant Capacity

Luke R. Howard, Chelsey Castrodale, Cindi Brownmiller and Andy Mauromoustakos

pp 4022-4029

Publication Date (Web): January 7, 2010 (Article)

DOI: 10.1021/jf902850h

[Abstract](#)

-  Full Text HTML
-  Hi-Res PDF[1194K]
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### Proximate and Polyphenolic Characterization of Cranberry Pomace

Brittany L. White, Luke R. Howard and Ronald L. Prior

pp 4030-4036

Publication Date (Web): December 18, 2009 (Article)

DOI: 10.1021/jf902829g

[Abstract](#)

-  Full Text HTML
-  Hi-Res PDF[892K]
-  PDF w/ Links[787K]



### Polyphenolic Composition and Antioxidant Capacity of Extruded Cranberry Pomace

Brittany L. White, Luke R. Howard and Ronald L. Prior

pp 4037-4042

Publication Date (Web): December 18, 2009 (Article)

DOI: 10.1021/jf902838b

[Abstract](#)

- Full Text HTML
- Hi-Res PDF[1283K]
- PDF w/ Links[729K]



## Analytical Methods

### Development of a Direct Procedure for the Measurement of Sulfur Isotope Variability in Beers by MC-ICP-MS

J. Giner MartÍnez-Sierra, R. Santamaria-Fernandez, R. Hearn, J. M. Marchante Gayón and J. I. GarcÍa Alonso

pp 4043-4050

Publication Date (Web): March 22, 2010 (Article)

DOI: 10.1021/jf9019213

[Abstract](#)

- Full Text HTML
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- PDF w/ Links[817K]



### Comparison between a TaqMan Polymerase Chain Reaction Assay and a Culture Method for ctx-Positive *Vibrio cholerae* Detection

Maria-Jose Chapela, Paula Fajardo, Alejandro Garrido, Ana G. Cabado, Martina Ferreira, Jorge Lago and Juan M. Vieites

pp 4051-4055

Publication Date (Web): March 15, 2010 (Article)

DOI: 10.1021/jf903658k

[Abstract](#)

- Full Text HTML
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### Distinguishing Ovarian Maturity of Farmed White Sturgeon (*Acipenser transmontanus*) by Fourier Transform Infrared Spectroscopy: A Potential Tool for Caviar Production Management

[Abstract](#)

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Xiaonan Lu, Molly Webb, Mariah Talbott, Joel Van Eenennaam, Amanda Palumbo, Javier Linares-Casenave, Serge

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Doroshov, Peter Struffenegger and Barbara Rasco

 [PDF w/ Links\[980K\]](#)

pp 4056-4064

Publication Date (Web): February 19, 2010 ([Article](#))

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DOI: 10.1021/jf9038502

### **Rapid Analytical Method for the Determination of Aflatoxins in Plant-Derived Dietary Supplement and Cosmetic Oils**

[Abstract](#)

Noreen Mahoney and Russell J. Molyneux

 [Full Text HTML](#)

pp 4065-4070

 [Hi-Res PDF\[768K\]](#)

Publication Date (Web): March 17, 2010 ([Article](#))

 [PDF w/ Links\[705K\]](#)

DOI: 10.1021/jf9039028

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### **Comparison of Three Extraction Methods Used To Evaluate Phenolic Ripening in Red Grapes**

[Abstract](#)

Sandra Fragoso, Montserrat Mestres, Olga Busto and Josep Guasch

 [Full Text HTML](#)

pp 4071-4076

 [Hi-Res PDF\[979K\]](#)

Publication Date (Web): March 5, 2010 ([Article](#))

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DOI: 10.1021/jf9040639

 [Subscriber Access](#)

### **Depletion of Urinary Zilpaterol Residues in Horses As Measured by ELISA and UPLC-MS/MS**

[Abstract](#)

Weilin L. Shelver, Jennifer F. Thorson, Carolyn J. Hammer and David J. Smith

 [Full Text HTML](#)

pp 4077-4083

 [Hi-Res PDF\[1324K\]](#)

Publication Date (Web): March 10, 2010 ([Article](#))

 [PDF w/ Links\[841K\]](#)

DOI: 10.1021/jf904253t

 [Subscriber Access](#)

### Acetic Acid Bacterial Lipids Improve Cognitive Function in Dementia Model Rats

Hiroyuki Fukami, Hideki Tachimoto, Mikiya Kishi, Takayuki Kaga and Yasukazu Tanaka

pp 4084-4089

Publication Date (Web): March 8, 2010 (Article)

DOI: 10.1021/jf9045842

[Abstract](#)

-  [Full Text HTML](#)
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### A ConA-like Lectin from *Dioclea guianensis* Benth. Has Antifungal Activity against *Colletotrichum gloeosporioides*, unlike Its Homologues, ConM and ConA

José H. Araújo-Filho, Ilka M. Vasconcelos, Aparecida S. Martins-Miranda, Darcy M. F. Gondim and José T. A. Oliveira

pp 4090-4096

Publication Date (Web): March 4, 2010 (Article)

DOI: 10.1021/jf903254b

[Abstract](#)

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### Purification and Identification of 1-Deoxynojirimycin (DNJ) in Okara Fermented by *Bacillus subtilis* B2 from Chinese Traditional Food (Meitaoza)

Yun-Ping Zhu, Kohji Yamaki, Tadashi Yoshihashi, Mayumi Ohnishi Kameyama, Xiu-Ting Li, Yong-Qiang Cheng, Yutaka Mori and Li-Te Li

pp 4097-4103

Publication Date (Web): March 2, 2010 (Article)

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[Abstract](#)

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### Anticarcinogenic Effects of Polyphenolics from Mango (*Mangifera indica*) Varieties

Giuliana D. Noratto, Michele C. Bertoldi, Kimberley Krenek, Stephen T. Talcott, Paulo C. Stringheta and Susanne U. Mertens-Talcott

pp 4104-4112

Publication Date (Web): March 5, 2010 (Article)

DOI: 10.1021/jf903161g

[Abstract](#)

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### Semipurified Fractions from the Submerged-Culture Broth of *Agaricus blazei* Murill Reduce Blood Glucose Levels in Streptozotocin-Induced Diabetic Rats

[Abstract](#)

Tae W. Oh, Yun A. Kim, Wook J. Jang, Jae I. Byeon, Chung H. Ryu, Jeong O. Kim and Yeong L. Ha

pp 4113-4119

Publication Date (Web): March 2, 2010 ([Article](#))

DOI: 10.1021/jf9036672

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- PDF w/ Links[778K]



### Apple Proanthocyanidins Do Not Reduce the Induction of Preneoplastic Lesions in the Colon of Rats Associated with Human Microbiota

[Abstract](#)

Evelyne F. Lhoste, Aurélie Bruneau, Martine Bensaada, Claire Cherbuy, Catherine Philippe, Sandrine Bruel, Malène Sutren, Sylvie Rabot, Sylvain Guyot, Pierre-Henri Dué and Paule Latino-Martel

pp 4120-4125

Publication Date (Web): March 5, 2010 ([Article](#))

DOI: 10.1021/jf904010a

- Full Text HTML
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### Properties of Synthetic Homoisoflavonoids To Reduce Oxidants and To Protect Linoleic Acid and DNA against Oxidation

[Abstract](#) | [Supporting Info](#)

Yan-Feng Li, Zai-Qun Liu and Xu-Yang Luo

pp 4126-4131

Publication Date (Web): March 3, 2010 ([Article](#))

DOI: 10.1021/jf904089q

- Full Text HTML
- Hi-Res PDF[1066K]
- PDF w/ Links[829K]



### Transport of Hop Bitter Acids across Intestinal Caco-2 Cell Monolayers

[Abstract](#)

Ko Cattoor, Marc Bracke, Dieter Deforce, Denis De Keukeleire and Arne Heyerick

pp 4132-4140

Publication Date (Web): March 23, 2010 ([Article](#))

DOI: 10.1021/jf904079h

- Full Text HTML
- Hi-Res PDF[1230K]
- PDF w/ Links[814K]



### Contribution of Chlorogenic Acids to the Inhibition of Human Hepatic Glucose-6-phosphatase Activity in Vitro by Svetol, a Standardized Decaffeinated Green Coffee Extract

Caroline Henry-Vitrac, Alvin Ibarra, Marc Roller, Jean-Michel Merrillon and Xavier Vitrac

pp 4141-4144

Publication Date (Web): March 22, 2010 ([Article](#))

DOI: 10.1021/jf9044827

[Abstract](#)

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### Effects of a Novel Pathogenesis-Related Class 10 (PR-10) Protein from *Crotalaria pallida* Roots with Papain Inhibitory Activity against Root-Knot Nematode *Meloidogyne incognita*

Lúcia Betânia da S. Andrade, Adeliana S. Oliveira, Jannison K. C. Ribeiro, Sumika Kiyota, Ilka Maria

Vasconcelos, José Tadeu Abreu de Oliveira and Maurício P. de Sales

pp 4145-4152

Publication Date (Web): March 3, 2010 ([Article](#))

DOI: 10.1021/jf9044556

[Abstract](#)

- [Full Text HTML](#)
- [Hi-Res PDF\[1809K\]](#)
- [PDF w/ Links\[839K\]](#)



### Activity-Guided Fractionation to Characterize a Coffee Beverage that Effectively Down-Regulates Mechanisms of Gastric Acid Secretion as Compared to Regular Coffee

Malte Rubach, Roman Lang, Carola Skupin, Thomas Hofmann and Veronika Somoza

pp 4153-4161

Publication Date (Web): March 17, 2010 ([Article](#))

DOI: 10.1021/jf904493f

[Abstract](#)

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- [Hi-Res PDF\[1119K\]](#)
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### Protective and Anticataract Effects of the Aqueous Extract of *Cleistocalyx operculatus* Flower Buds on $\beta$ -Cells of Streptozotocin-Diabetic Rats

Truong Tuyet Mai, Keiko Yamaguchi, Mizuho Yamanaka, Nguyen Thi Lam, Yuzuru Otsuka and Nguyen Van Chuyen

pp 4162-4168

Publication Date (Web): March 15, 2010 ([Article](#))

DOI: 10.1021/jf904304w

[Abstract](#)

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Biofuels and Bioproducts Chemistry

**Finding the “Bio” in Biobased Products: Electrophoretic Identification of Wheat Proteins in Processed Products**


George H. Robertson, William J. Hurkman, Trung K. Cao, Charlene K. Tanaka and William J. Orts

pp 4169-4179

Publication Date (Web): March 12, 2010 (Article)

DOI: 10.1021/jf903759d

[Abstract](#)

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**Encapsulation of Plant Oils in Porous Starch Microspheres**

Gregory M. Glenn, Artur P. Klamczynski, Delilah F. Woods, BorSen Chiou, William J. Orts and Syed H. Imam

pp 4180-4184

Publication Date (Web): March 2, 2010 (Article)

DOI: 10.1021/jf9037826

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Kaewta Kaewtatip, Paul Menut, Remi Auvergne, Varaporn Tanrattanakul, Marie-Helene Morel and Stephane

Guilbert

pp 4185-4192

Publication Date (Web): March 5, 2010 (Article)

DOI: 10.1021/jf9042776

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**Selected Carbohydrate Metabolism Genes Show Coincident Expression Peaks in Grains of *In Vitro*-Cultured Immature Spikes of Wheat (*Triticum aestivum* L.)** [Abstract](#)

Seedhabadee Ganeshan, Jenna M. Drinkwater, Anne Repellin and Ravindra N. Chibbar

pp 4193-4201

Publication Date (Web): March 17, 2010 ([Article](#))

DOI: 10.1021/jf903861q

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**Molecular Mechanism of Enantioselective Inhibition of Acetolactate Synthase by Imazethapyr Enantiomers** [Abstract](#)

Qingyan Zhou, Na Zhang, Cheng Zhang, Lidong Huang, Yaofang Niu, Yongsong Zhang and Weiping Liu

pp 4202-4206

Publication Date (Web): March 10, 2010 ([Article](#))

DOI: 10.1021/jf9038953

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-  [PDF w/ Links\[749K\]](#)
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Chemical Aspects of Food Safety





**High Molecular Weight Entities in Industrial Wheat Protein Hydrolysates Are Immunoreactive with IgE from Allergic Patients** [Abstract](#)

Isabelle Bouchez-Mahiout, Catherine Pecquet, Stephan Kerre, Jacques Snegaroff, Nadia Raison-Peyron and Michel Laurière

pp 4207-4215

Publication Date (Web): March 2, 2010 ([Article](#))



DOI: 10.1021/jf903973x

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-  [Hi-Res PDF\[2132K\]](#)
-  [PDF w/ Links\[864K\]](#)
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**Exogenous Proline Effects on Photosynthetic Performance and Antioxidant Defense System of Young Olive Tree** [Abstract](#)

Chedlia Ben Ahmed, Bechir Ben Rouina, Serhat Sensoy, Mekki Boukhriss and Ferjani Ben Abdullah

pp 4216-4222

-  [Full Text HTML](#)
-  [Hi-Res PDF\[722K\]](#)
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Publication Date (Web): March 8, 2010 ([Article](#))

DOI: 10.1021/jf9041479

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### Ricinoleic Acid as a Marker for Ergot Impurities in Rye and Rye Products

[Abstract](#) | [Supporting Info](#)

Carolin Franzmann, Johannes Wächter, Natascha Dittmer and Hans-Ulrich Humpf

pp 4223-4229

Publication Date (Web): March 18, 2010 ([Article](#))

DOI: 10.1021/jf1006903

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### Influence of Thermal Processing on Hydrolysis and Stability of Folate Poly- $\gamma$ -glutamates in Broccoli (*Brassica oleracea var. italica*), Carrot (*Daucus carota*) and Tomato (*Lycopersicon esculentum*)

[Abstract](#)

Ann Wambui Munyaka, Philippe Verlinde, Ivan Muzira Mukisa, Indrawati Oey, Ann Van Loey and Marc Hendrickx

pp 4230-4240

Publication Date (Web): March 23, 2010 ([Article](#))

DOI: 10.1021/jf100004w

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### Structural Changes and Dynamic Rheological Properties of Sarcoplasmic Proteins Subjected to pH-Shift Method

[Abstract](#)

Panchaporn Tadpitchayangkoon, Jae W. Park, Steven G. Mayer and Jirawat Yongsawatdigul

pp 4241-4249

Publication Date (Web): March 17, 2010 ([Article](#))

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### Using Confocal Laser Scanning Microscopy To Probe the Milk Fat Globule Membrane and

[Abstract](#)





### Associated Proteins

Sophie Gallier, Derek Gragson, Rafael Jiménez-Flores and David Everett

pp 4250-4257

Publication Date (Web): March 10, 2010 ([Article](#))

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### Metabolomics Revealed Novel Isoflavones and Optimal Cultivation Time of *Cordyceps militaris* Fermentation





Jung Nam Choi, Jiyoung Kim, Mi Yeon Lee, Dong Ki Park, Young-Shick Hong and Choong Hwan Lee

pp 4258-4267

Publication Date (Web): March 12, 2010 ([Article](#))

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-  [Subscriber Access](#)

### Evolution of Resveratrol and Piceid Contents during the Industrial Winemaking Process of Sherry Wine





Ana Roldán, Victor Palacios, Ildefonso Caro and Luis Pérez

pp 4268-4273

Publication Date (Web): March 16, 2010 ([Article](#))

DOI: 10.1021/jf9038666

[Abstract](#)

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### Impact of Thermal Processing on the Activity of Gallotannins and Condensed Tannins from *Hamamelis virginiana* Used as Functional Ingredients in Seafood





María Jesús González, Josep Lluís Torres and Isabel Medina

pp 4274-4283

Publication Date (Web): March 11, 2010 ([Article](#))

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[Abstract](#)

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### Isoflavones and Antioxidant Capacity of Commercial Soy-Based Beverages: Effect of Storage [Abstract](#)

Katia Rau De Almeida Callou, Shamil Sadigov, Franco Maria Lajolo and Maria Ines Genovese









pp 4284-4291

Publication Date (Web): March 3, 2010 (Article)

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### Unusual Color Change of Vinylpyranoanthocyanin–Phenolic Pigments





Alexandre R. F. Carvalho, Joana Oliveira, Victor De Freitas, Nuno Mateus and André Melo

pp 4292-4297

Publication Date (Web): March 10, 2010 (Article)

DOI: 10.1021/jf904246g

[Abstract](#)

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### Gamma Irradiation Induced Enhancement in Isoflavones, Total Phenol, Anthocyanin and Antioxidant Properties of Varying Seed Coat Colored Soybean





Amit Kumar Dixit, Deepti Bhatnagar, Vineet Kumar, Anita Rani, J. G. Manjaya and Deepak Bhatnagar

pp 4298-4302

Publication Date (Web): March 10, 2010 (Article)

DOI: 10.1021/jf904228e

[Abstract](#)

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### Effects of Heat Treatment on Wound Healing in Gala and Red Fuji Apple Fruits





Xingfeng Shao, Kang Tu, Sicong Tu, Jing Su and Yan Zhao

pp 4303-4309

Publication Date (Web): March 17, 2010 (Article)

DOI: 10.1021/jf904273m

[Abstract](#)

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### Effect of Different Cooking Methods on Color, Phytochemical Concentration, and Antioxidant Capacity of Raw and Frozen Brassica Vegetables

Nicoletta Pellegrini, Emma Chiavaro, Claudio Gardana, Teresa Mazzeo, Daniele Contino, Monica Gallo, Patrizia


-  Full Text HTML

Riso, Vincenzo Fogliano and Marisa Porrini

pp 4310-4321

Publication Date (Web): March 10, 2010 (Article)

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## Chemical Composition of Foods/Feeds

### Distribution of Nutrients and Antinutrients in Milled Fractions of Chickpea and Horse Gram: Seed Coat Phenolics and Their Distinct Modes of Enzyme Inhibition





Yadahally N. Sreerama, Dennis A. Neelam, Vadakkoot B. Sashikala and Vishwas M. Pratape

pp 4322-4330

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### Effects of Management Factors on the Concentration of a High Molecular Weight Polysaccharide Fraction from Log-Grown Shiitake Mushrooms (*Lentinula edodes* (Berk.) Pegler)





Tom E. Kimmons, Mark Phillips and David Brauer

pp 4331-4335

Publication Date (Web): March 22, 2010 (Article)

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[Abstract](#)

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### Seasonal Changes in the Metabolic Fingerprint of 21 Grass and Legume Cultivars Studied by Nuclear Magnetic Resonance-Based Metabolomics

Hanne Christine Bertram, Martin Riis Weisbjerg, Christian S. Jensen, Morten Greve Pedersen, Thomas Didion,





Bent O. Petersen, Jens Ø. Duus, Mette K. Larsen and Jacob Holm Nielsen

pp 4336-4341

Publication Date (Web): March 12, 2010 (Article)

DOI: 10.1021/jf904321p

[Abstract](#)

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### Color, Sugars and Organic Acids Composition in Aril Juices and Peel Homogenates Prepared from Different Pomegranate Accessions



Mery Dafny-Yalin, Ira Glazer, Igal Bar-Ilan, Zohar Kerem, Doron Holland and Rachel Amir

pp 4342-4352

Publication Date (Web): March 17, 2010 (Article)

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## Crop and Animal Protection Chemistry

### Phytotoxic Activity of Quinones and Resorcinolic Lipid Derivatives

Cassia S. Mizuno, Agnes M. Rimando and Stephen O. Duke

pp 4353-4355

Publication Date (Web): March 16, 2010 (Article)

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### Synthesis and Herbicidal Activity of Novel *N*-(2,2,2)-Trifluoroethylpyrazole Derivatives

Hong-Ju Ma, Yong-Hong Li, Qian-Fei Zhao, Tao Zhang, Ru-Liang Xie, Xiang-Dong Mei and Jun Ning

pp 4356-4360

Publication Date (Web): March 23, 2010 (Article)

DOI: 10.1021/jf9042166

[Abstract](#)

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### Differential Susceptibility to Glyphosate among the *Conyza* Weed Species in Spain

Fidel González-Torralva, Hugo Cruz-Hipolito, Fernando Bastida, Norbert Müllereder, Reid J. Smeda and Rafael De Prado

pp 4361-4366

[Abstract](#)

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## Environmental Chemistry

### **A Clomazone Immunoassay To Study the Environmental Fate of the Herbicide in Rice (*Oryza sativa*) Agriculture** [Abstract](#)

Mariana Carlomagno, Cecilia Mathó, Guillermina Cantou, James R. Sanborn, Jerold A. Last, Bruce D. Hammock, Alvaro Roel, David González and Gualberto González-Sapienza

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## Flavors and Aromas/Chemosensory Perception

### **Thermodynamic and Structure–Property Study of Liquid–Vapor Equilibrium for Aroma Compounds** [Abstract](#)

Anne Tromelin, Isabelle Andriot, Mirela Kopjar and Elisabeth Guichard

pp 4372-4387

Publication Date (Web): March 11, 2010 (Article)

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### **HS-SPME Comparative Analysis of Genotypic Diversity in the Volatile Fraction and Aroma-Contributing Compounds of Capsicum Fruits from the *annuum–chinense–frutescens* Complex** [Abstract](#)

Adrián Rodríguez-Burruezo, Hubert Kollmannsberger, M. Carmen González-Mas, Siegfried Nitz and Fernando Nuez

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### Production of Biovanillin by One-Step Biotransformation Using Fungus *Pycnoporus cinnabarinus*

Ashwini Tilay, Mahesh Bule and Uday Annapure

pp 4401-4405

Publication Date (Web): March 19, 2010 (Article)

DOI: 10.1021/jf904141u

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### Evolution of S-Cysteinylated and S-Glutathionylated Thiol Precursors during Oxidation of Melon B. and Sauvignon blanc Musts

AurÉlie Roland, Jérôme Vialaret, Alain Razungles, Peggy Rigou and Rémi Schneider

pp 4406-4413

Publication Date (Web): March 3, 2010 (Article)

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## Food Chemistry/Biochemistry

### Effects of Sulfur Dioxide on Formation of Fishy Off-Odor and Undesirable Taste in Wine Consumed with Seafood

Akiko Fujita, Atsuko Isogai, Michiko Endo, Hitoshi Utsunomiya, Shigeyoshi Nakano and Hiroshi Iwata

pp 4414-4420

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### Effect of Denaturation of $\alpha$ -Lactalbumin on the Formation of BAMLET (Bovine $\alpha$ -Lactalbumin Made Lethal to Tumor Cells)

[Abstract](#)



Kamila Lišková, Alan L. Kelly, Nora O'Brien and André Brodkorb

pp 4421-4427

Publication Date (Web): March 16, 2010 ([Article](#))

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**Extraction, Quantification, and Antioxidant Activities of Phenolics from Pericarp and Seeds of Bitter Melons (*Momordica charantia*) Harvested at Three Maturity Stages (Immature, Mature, and Ripe)**

Ronny Horax, Navam Hettiarachchy and Pengyin Chen

pp 4428-4433

Publication Date (Web): March 12, 2010 ([Article](#))

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**Differential Scanning Calorimetry (DSC) Studies on the Thermal Properties of Peanut Proteins**

Andrés Colombo, Pablo Daniel Ribotta and Alberto Edel León

pp 4434-4439

Publication Date (Web): March 12, 2010 ([Article](#))

DOI: 10.1021/jf903426f

[Abstract](#)

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**Theoretical Model for Calculating Ionic Equilibria in Milk as a Function of pH: Comparison to Experiment**

Omar Mekmene, Yvon Le Graët and Frédéric Gaucheron

pp 4440-4447

Publication Date (Web): March 12, 2010 ([Article](#))

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[Abstract](#)

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**Effect of Phenolic Compounds on the Formation of  $\alpha$ -Aminoadipic and  $\gamma$ -Glutamic Semialdehydes from Myofibrillar Proteins Oxidized by Copper, Iron, and Myoglobin**

[Abstract](#)



Mario Estévez and Marina Heinonen

pp 4448-4455

Publication Date (Web): March 2, 2010 ([Article](#))

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### Formation of Pent-4-en-1-amine, the Counterpart of Acrylamide from Lysine and Its Conversion into Piperidine in Lysine/Glucose Reaction Mixtures

Plamen Y. Nikolov and Varoujan A. Yaylayan

pp 4456-4462

Publication Date (Web): March 5, 2010 ([Article](#))

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[Abstract](#)

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### Structure, Physical, and Digestive Properties of Starch from *wx ae* Double-Mutant Rice

Akiko Kubo, Guray Akdogan, Makoto Nakaya, Aiko Shojo, Shiho Suzuki, Hikaru Satoh and Shinichi Kitamura

pp 4463-4469

Publication Date (Web): March 5, 2010 ([Article](#))

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[Abstract](#)

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### Improving the Compatibility of Zein/Poly(vinyl alcohol) Blends by Gamma Irradiation and Graft Copolymerization of Acrylic Acid

Magdy M. Senna, Stephane Salmieri, Abdel-Wahab El-naggar, Agnes Safrany and Monique Lacroix

pp 4470-4476

Publication Date (Web): March 12, 2010 ([Article](#))

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[Abstract](#)

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### Neurotrophic and Cytoprotective Action of Luteolin in PC12 Cells through ERK-Dependent Induction of Nrf2-Driven HO-1 Expression

Chia-Wei Lin, Ming-Jiuan Wu, Ingrid Y.-C. Liu, Jeng-Dian Su and Jui-Hung Yen

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**Oxidative Stability of Microencapsulated Fish Oil Powders Stabilized by Blends of Chitosan, Modified Starch, and Glucose**

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Zhiping Shen, Mary Ann Augustin, Luz Sanguansri and Li Jiang Cheng

pp 4487-4493

Publication Date (Web): March 11, 2010 ([Article](#))

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**Effect of Ultrasonic Treatment on the Graft Reaction between Soy Protein Isolate and Gum Acacia and on the Physicochemical Properties of Conjugates**

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Lixia Mu, Mouming Zhao, Bao Yang, Haifeng Zhao, Chun Cui and Qiangzhong Zhao

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**Impact of Protein on Darkening in Yellow Alkaline Noodles**

[Abstract](#)

Robert E. Asenstorfer, Marie J. Appelbee and Daryl J. Mares

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**Comparison of Different Strategies for Soybean Antioxidant Extraction**

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Hyun Chung, Xiangming Ji, Corene Canning, Shi Sun and Kequan Zhou

pp 4508-4512




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### Green Bean (*Phaseolus vulgaris*): A New Source of IgE-Binding Lipid Transfer Protein

Elide A. Pastorello, Valerio Pravettoni, Laura Farioli, Laura Primavesi, Joseph Scibilia, Marta Piantanida, Ambra





Mascheri and Amedeo Conti

pp 4513-4516

Publication Date (Web): March 11, 2010 ([Article](#))

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### Glyphosate Affects Seed Composition in Glyphosate-Resistant Soybean

Luiz H. S. Zobiolo, Rubem S. Oliveira, Jr., Jesui V. Visentainer, Robert J. Kremer, Nacer Bellaloui and Tsuioshi





Yamada

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## Molecular Nutrition

### Involvement of Breast Cancer Resistance Protein (BCRP1/ABCG2) in the Bioavailability and Tissue Distribution of *trans*-Resveratrol in Knockout Mice

Irene Alfaras, Míriam Pérez, María Emília Juan, Gracia Merino, Julio Gabriel Prieto, Joana Maria Planas and Ana





Isabel Álvarez

pp 4523-4528

Publication Date (Web): March 16, 2010 ([Article](#))

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## Absolute Bioavailability of Isoflavones from Soy Protein Isolate-Containing Food in Female

### Balb/c Mice





Juan E. Andrade, Nathan C. Twaddle, William G. Helferich and Daniel R. Doerge

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